

What is claimed is:

1. A data transmitting and receiving apparatus for transmitting and receiving data between an external device and a pertinent bus of a plurality of buses connected by a bridge, the external device forming one portion of the bridge, the data transmitting and receiving apparatus comprising:

storing means for storing first information and second information, the first information representing whether the transmission source or the transmission destination of the data is the data transmitting and receiving apparatus, the second information representing whether or not the data should be transmitted to the pertinent bus;

setting means for setting the first information and the second information stored in said storing means to a predetermined state corresponding to an external request; and

transmitting and receiving means for transmitting and receiving the data to/from the pertinent bus or the external device corresponding to the first information and the second information stored in said storing means.

2. The data transmitting and receiving apparatus as set forth in claim 1,

wherein the bridge is a bridge complying with IEEE (The Institute of Electrical and Electronics

Engineers) 1394 high performance serial bus standard.

3. The data transmitting and receiving apparatus
as set forth in claim 1,

5 wherein the first information and the second
information are bits or flags.

4. A data transmitting and receiving method for
transmitting and receiving data between an external
device and a pertinent bus of a plurality of buses
connected by a bridge, the external device forming one
10 portion of the bridge, the data transmitting and
receiving method comprising the steps of:

15 storing first information and second
information, the first information representing whether
the transmission source or the transmission destination
of the data is a local device, the second information
representing whether or not to the data should be
transmitted to the pertinent bus and setting the first
information and the second information that have been
stored to a predetermined state corresponding to an
20 external request; and

transmitting and receiving the data to/from
the pertinent bus or the external device corresponding
to the first information and the second information
that have been set.

25 5. The data transmitting and receiving method as
set forth in claim 4,

wherein the bridge is a bridge complying with

IEEE (The Institute of Electrical and Electronics Engineers) 1394 high performance serial bus standard.

6. The data transmitting and receiving method as set forth in claim 4,

5 wherein the first information and the second information are bits or flags.